

Commissioner for Patents  
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Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

This Information Disclosure Statement accompanies the new patent application submitted herewith of the following Inventors: Tianmin ZHU, Ker YU, Judy LUCAS, Jianxin GU, Arie ZASK;

For: WATER SOLUBLE WORTMANNIN DERIVATIVES.

1. **Preliminary Statements**

In accordance with 37 CFR 1.97 and 1.98, Applicants submit herewith patents, publications, or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56. This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) the information is material to the examination of this application; (iii) additional information material to the examination of this application does not exist; (iv) the information, protocols, results and the like reported by third parties are accurate or enabling; or (v) the information constitutes prior art to the subject invention.

2. ☐ **Previously Cited Information**

No copy of the patents, publications or other information cited on the attached form PTO-1449 is enclosed because it has been previously cited by or submitted to the Office in a prior application which is relied upon for an earlier filing date under 35 USC 120. Prior application is Application Number \_\_\_\_\_ filed on \_\_\_\_\_ of \_\_\_\_\_ for \_\_\_\_\_.

**CERTIFICATE OF MAILING 37 CFR §1.10**

I hereby certify that this paper and the documents referred to as enclosed therein are being deposited with the United States Postal Service on the date written below in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number ER672184747US addressed to the Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

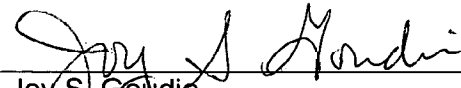
Date

April 20, 2004

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3. ☒ Newly Cited Information  
A legible copy of the patents, publications or other information cited on the attached form PTO-1449 is enclosed, except that no copy of a pending U.S. application, a U.S. patent, or a U.S. patent application publication is enclosed.
4. ☐ Concise Explanation  
Documents cited above which are not in the English Language  
a. ☐ have been explained in the specification.  
b. ☐ have an abstract (or other concise explanation) in English enclosed or, if readily available, a translation into English of the document is enclosed.
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Substitute for form 1449/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
				Tianmin Zhu	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	
				AM101007	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number (If known)	Kind Code (If Known)			
/S.F./	1.	US5,362,718		Skotnicki et al.	11-08-1994	
/S.F./	2.	US5,378,725		Bonjouklian et al.	01-03-1995	
/S.F./	3.	US5,441,947		Dodge et al.	08-15-1995	
/S.F./	4.	US5,468,773		Dodge et al.	11-21-1995	
/S.F./	5.	US5,480,906		Creemer et al.	01-02-1996	
/S.F./	6.	US5,614,549		Greenwald et al.	03-25-1997	
/S.F./	7.	US5,648,506		Desai et al.	07-15-1997	
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/S.F./	13.	US6,432,973B1		Zhu et al.	08-13-2002	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
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/S.F./	14.		DT 2022452		DT	12-17-1970		<input type="checkbox"/>
/S.F./	15.		EPO 0641566A1		EPO	08-24-1994		<input type="checkbox"/>
/S.F./	16.		WO 93/24476		PCT	12-09-1993		<input type="checkbox"/>
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OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T	
/S.F./	18.	KWAK, et al., Involvement of PTEN in Airway Hyperresponsiveness and Inflammation in Bronchial Asthma, J. Clin. Invest. 111:1083-1092 (2003)	<input type="checkbox"/>	
/S.F./	19.	BEBBINGTON, et al., Prodrug and Covalent Linker Strategies for the Solubilization of Dual-Action Antioxidants/Iron Chelators, Bioorg. Med. Chem. Lett. 12:3297-3300 (2002)	<input type="checkbox"/>	
/S.F./	20.	CREEMER, et al., Synthesis and In Vitro Evaluation of New Wortmannin Esters: Potent Inhibitors of Phosphatidylinositol 3-Kinase, J. Med. Chem. 39:5021-5024 (1996)	<input type="checkbox"/>	
/S.F./	21.	DEWALD, et al., Two Transduction Sequences Are Necessary for Neutrophil Activation by Receptor Agonists, J. Bio. Chem. 263:31:16179-16184 (1988)	<input type="checkbox"/>	
/S.F./	22.	GREENWALD, et al., Effective Drug Delivery by PEGylated Drug Conjugates, Adv. Drug Deliv. Rev. 55:217-250 (2003)	<input type="checkbox"/>	
/S.F./	23.	GREENWALD, et al., Selective Phenolic Acylation of 10-Hydroxycamptothecin Using Poly (Ethylene Glycol) Carboxylic Acid, Bioorg. Med. Chem. Lett.	<input type="checkbox"/>	
/S.F./	24.	FENG, et al., Synthesis and Evaluation of Water-Soluble Paclitaxel Prodrugs, Bioorg. Med. Chem. Lett. 12:3301-3303 (2002)	<input type="checkbox"/>	
/S.F./	25.	GREENWALD, PEG Drugs: An Overview, J. Cont. Rel. 74:159-171 (2001)	<input type="checkbox"/>	
/S.F./	26.	NORMAN, et al., Studies on the Mechanism of Phosphatidylinositol 3-Kinase Inhibition by Wortmannin and Related Analogs, J. Med. Chem. 39:1106-1111 (1996)	<input type="checkbox"/>	
/S.F./	27.	VARTICOVSKI, et al., Water-Soluble HPMA Copolymer-Wortmannin Conjugate Retains Phosphoinositide 3-Kinase Inhibitory Activity In Vitro and In Vivo, J. Cont. Rel. 74:275-281 (2001)	<input type="checkbox"/>	

Examiner Signature	/Shahrazad Farzaneh/	Date Considered	12/06/2007
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.